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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,721	08/08/2006	Hideki Ando	129026	1978
25944 OLIFF & BERI	7590 11/02/200 RIDGE, PLC	EXAMINER		
P.O. BOX 3208	350	YANCHUK, STEPHEN J		
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			1795	
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			MAIL DATE	DELIVERY MODE
			11/02/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/588,721	ANDO ET AL.			
Office Action Summary	Examiner	Art Unit			
	STEPHEN YANCHUK	1795			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>05 Ja</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the	relection requirement. r. epted or b)□ objected to by the B				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 8/8/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3. 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Ono et al [PGPUB 20020055046].

Claim 1-2, 5, and 7: Ono teaches an electrochemical battery in which deterioration of the charge transport performance is minimized [Abstract]. The separator is taught to be made of combination of polyethylene or polypropylene that have various porous diameters and are laminated [Paragraph 202]. The separators are made to be non-woven [Paragraph 270]. The limitation to the size of the separator is not patentable because it is known in the art to have the separator be in relation to the electrodes (same size or larger). MPEP 2144.04 IV.A.

Claim 3: The amount of electrolyte is to be optimized to match the volume of the container and what is required to provide sufficient ion conductivity. MPEP 2144.04 IV.A

Claim 6: Ono teaches having two or more types of materials in the separator [Paragraph 202]. The claim however does not limit the claim since it is all inclusive. The two limitations are greater than 30% and less than 50% wherein 0-100% is contained.

3. Claims 1-4, 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Takeuchi [PGPUB 2002/0025476].

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Claim 1-2: Takeuchi teaches a separator made of polypropylene membrane and mesh [Paragraph 21]. The mesh is non-woven [Paragraph 24]. The limitation to the size of the separator is not patentable because it is known in the art to have the separator be in relation to the electrodes (same size or larger). MPEP 2144.04 IV.A.

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Claim 3: The amount of electrolyte is to be optimized to match the volume of the container and what is required to provide sufficient ion conductivity. *MPEP 2144.04 IV.A*

Claim 4: The separator comprises lithium trifluoromethane sulfonate [Claim 5].

Claim 6: Takeuchi teaches having two or more types of materials in the separator [Paragraph 17]. The claim however does not limit the claim since it is all inclusive. The two limitations are greater than 30% and less than 50% wherein 0-100% is contained.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to STEPHEN YANCHUK whose telephone number is (571)270-7343. The examiner can normally be reached on Monday through Thursday 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/STEPHEN YANCHUK/ Examiner, Art Unit 1795

/PATRICK RYAN/ Supervisory Patent Examiner, Art Unit 1795